

$$1 - 2021 \cdot - 2000 \cdot$$

$$0200_{a\neq 0}000000_{X>0}0000f(x) \le g(x)000000\frac{b}{a}000000$$

$$2002021 \cdot 0000 \cdot 0000000 f(x) = e^x + (1+x)^a + \frac{a}{1+x} - a - 2, g(x) = bx^2 + x_{0000} a \in \mathbf{R}, \quad b \in \mathbf{R}.$$

 $e = 2.718281828 \cdots 00000000$

 $\Box 1 \Box \Box f(x) \Box \Box \Box \Box \Box$

$$0100 g(x) = f(x) - ax + 1_{000} g(x)$$

 $0100^{a+b=0}00^{f(x)}0000^{g(x)}0000000^{a}000$

 $200 f(x) \ge g(x) 0000 x > 0 00000 a + b 0000.$

 $7002021 \cdot 0000 \cdot 00000 \stackrel{e}{0}0000000000 \stackrel{f(x)}{=} e^x \quad g(x) = nx + n \quad m, n \in \mathbf{R}_{00}$

 $0100 \, m + n = 0$

 $200 \quad f(x) \geq g(x) \quad 0000 \quad X \in \mathbf{R}_{00000} \quad m + n_{00000}$

 $8002021 \cdot 00 \cdot 000000000 f(x) = (a+1) x - \ln x (a, b \in R).$

 $\operatorname{diag}^{X\in \,(\,0,+\infty)}\operatorname{diag}^{f(\,X\!)\,\leq 0}\operatorname{double}^{\partial_{0}\operatorname{double}}$

 $200 \stackrel{f(x) \ge b}{00000} b - a^2 - a_{0000}.$

010000 f(x) 000 [-1,1] 000000 a000000

 $(1)_{a=1} D_{b=0} D_{0} D_{0} f(x) > \frac{5}{4} D_{0}$

(2) $\int_{0}^{1} f(x)^{2} dx = \int_{0}^{1} f(x)^{2} dx$

 $20000 \stackrel{X_{0000}}{=} f(x) \leq xe^{x} - e^{x} + m_{000} \stackrel{X \in [0,1]}{=} 0000 \stackrel{X_{00000}}{=} n_{000} \stackrel{M \in [1,2]}{=} m + n_{00000}.$

 $0 \text{ if } 0 \text{ if } x \text{$

100 a = 0 00000 y = f(x) 00 (0, f(0)) 0000000

 $200 \stackrel{a=1}{=} 20000 \stackrel{f(x)}{=} 200000$

 $01000 \stackrel{f(X)}{\longrightarrow} 00000$

 $0200 \ f(\vec{x}) \geq - \frac{1}{2}\vec{x}^2 + ax + b_{0000000} ab_{0000}.$

15_2221.

 $\lim_{x\to 0} a = 1_{000000} F(x) = f(x) - g(x)$

 $= f(\vec{x}) = 0$

 $\lim_{n\to\infty} f(x)\geq g(x) = 0 = 0 = a+b_0 = 0.$



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